## SEQUENCE LISTING

- <11) > Yang, Shumin McCall, Catherine A. Weber, Eric R.
- $<\!\!120+$  CANTHE AND FELINE IMMUNOREGULATORY PROTEINS, NUCLEIC ACTD MOLECULES, AND USES THEREOF
- 413 ) TM-2-C1-C1
- 4144 not yet assigned
- <141: 2001-01-05</pre>
- H:15 CH (5: 322,409)
- :151:- 1:59-05-28
- 315 0 €0, 087,30€
- <151:- 1993-05-29
- +:1600 11
- ::170: PatentIn Ver. 2.1
- <2100<1
- +:21.1: 1+
- -:211.:- DIA
- -210 Artificial Sequence
- -:2200
- <2200 Description of Artificial Sequence: Synthetic
  Primer</pre>
- <4000-1
- atgraettic ittgra

16

- -d21 :
- <21.1 40
- <2111 DNA
- <210> Artificial Sequence
- 111....

the appropriate the control of the c

<210 > 3 <211 + 27 <212 + DNA <213 + Artificial Sequence	
00230 - 00221 - Description of Artificial Sequence: Synthetic Primer	
-: (00+ } -mga:yettk sttggsecte attetea	27
<pre>00:10 + 4 00:110     610 00:120     DNA 00:130     Canis familiaris</pre>	
+0.20+ +0.21+ CDS +0.22+ (29)(430)	
eaaggcaaac actgaacatt toagagot atg aga atg ott otg aat ttg agt  Met Arg Met Leu Leu Asn Leu Ser  1 5	52
ttg eta get ett ggg get gee tat gtt tet gee ttt get gta gaa aat Leu Leu Ala Leu Gly Ala Ala Tyr Val Ser Ala Phe Ala Val Glu Asn 10 15 20	100
coo atg aat aga otg gtg gca gag aco ttg aca otg oto too act cat Fro Met Alm Arg bet Val Ala Glu Thr Leu Thr Leu Ser Thr His	148
CGG act tog ctg ata ggc gat ggg aac ctg atg att cct act cct gaa. Ard Thr Trp Leu Ile Gly Asp Gly Ash Leu Met Ile Pro Thr Pro Glu 45 50 55	196
an' saa ant dae maa eto toe att man dan ott tit end oot min dan.	0.4.4

Ash bys Ash His Gln Leu Cys He Lys Glu Val Phe Gln Gly He Asp

caa aac ttg tot Gln Asn Leu Ser 90				
igt gca qga gaa Cys Ala Gly Glu 105				
gta itt ott ggt Val Phe Leu Gly				430
tgagaadaaa doggo	ettatt gtagtggaa	ıg attttggaga	agaatggttt	tttggcgatg 490
agaatgaggg ccaac	ccaaca gtagggact	t aatggeeagt	ataactaagc	ttcagagaca 550
aagtaaatat ttcag	ggdatd dtadtadtt	t atcacttcac	acagatgaaa	tatatttgag 610
<210> 5 <211> 134 <212> PRT <213> Canis fami <400> 5	liaris			
Met Arg Met Leu 1	Leu Asn Leu Ser 5	Leu Leu Ala 10	Leu Gly Ala	Ala Tyr 15
Val Ser Ala Phe 20	Ala Val Glu Asr	Pro Met Asn 25	Arg Leu Val	Ala Glu
Thr Leu Thr Leu	Leu Ser Thr His	_	Leu Ile Gly	Asp Gly
Assi Led Met 11e	Pro Thr Pro Gla	. Asn lyc Asn	His Gln Leu	Cys Ile
Lys Glu Val Phe 65	Gln Gly Ile Asp 70	Thr Leu Lys 75	Asn Gin Thr	Ala His 80
Gly Glu Ala Val				

115 120 125

Glu Trp Thr Pro Glu Ser 130

210~ 6 <0.11 - 610 +0.12 - DNA <213 - Canis familiaris <400 - 6

totalaatata totaatota gogaaagtaat aaagtagtaa gatgeetgaa atattaacti 60 togtototgaa gottagttat actggocatt aagteeetaa togtogatga eataageegg tottgototea 120 actomoogat goodaateet totocaaaat ottocaataa acttgoagga agteetaggaa 240 attomoogat godaatotti otocotgaaca oottototti toggogotota togtgototti 300 tattaaagaa aagttotgga atagttato cacaageetee cogtgggaag tottggttotti 300 aaatmootat ataaceetgaa aaacttotti aatgaacagt toggtgattit tattotaagg 420 agtaaggaate ataaggtoo categootat cagcaaagt toggtgattit tattotaagg 420 aagamootat godaacagt tattoatgg attototaagaa aaacttotti aatgaacagt oogaaaggaag aaaacatagg 540 aagamootat godaacagt togaaattoto aatgacaagt togaaaggaag aaacataagg 540 agamootatg

<210: 7
<211: 402
<212: DNA
<213: Canis familiaris

<400× 7

+1.100 ¥ +..11> 4... ctitiquant officialiti processor potitititi tiggogotota tigtificiti 120 tattimasqae aagittiinga atagettate pacageetee pogtigggeag titiggitetti 180 naatifigtet ataecetgaa aaaettetti aatigeacagi tiggigattii tattiteagg 240 agitangaate ateaggitee categeetat bagecaagit ogatgagitgg agageagitgi 300 naagiithiin gebacagite tatteatigg attitetaca graaaggeag aaabatagge 360 aginoicaaga getagbaaab todaaattoag aagoattoto at 402

<210 - 9

<211 - 345

 $\sim 2.12 + DNA$ 

<213 Canis familiaris

<220

<221 - CDS

<222 (1)..(345)

<400.. 9

this got goa gas ast occ atg ast aga otg gog gos gag acc the aca 48. Phe Ala Val Glu Ash Pro Met Ash Arg Leu Val Ala Glu Thr Leu Thr

1 5 10 15

ctg etc toc act cat cga act tgg ctg ata ggc gat ggg aac etg atg 96 Leu Leu Ser Thr His Arg Thr Trp Leu Ile Gly Asp Gly Asn Leu Met 20 25 30

att det act det gaa aat aaa aat dae daa dtg tge att aaa gaa gtt — 144 Ile Fro Thr Pro Glu Asn Lys Asn His Gln Leu Cys Ile Lys Glu Val 35 — 40 — 45

ttt dag ggt ata gac aca ttg aag aac caa act ged cac ggg gag get 192 Phe Gln Gly Ile Asp Thr Leu Lys Asn Gln Thr Ala His Gly Glu Ala 50 55 50

oto gat and eta tie cha and tio tot tia ata and dad cac ata dag - 140 Val Asp lwo led Phe Gli Ash Led Ser Leo Ile Lyo Gli Hio Ile Gli

CHC caa aaa agg tgt gca gga gaa aga tgg aga gtg aca aag ttc - DWF Arg Gin Lyn Lys Arg Cys Ala Gly Glu Arg Trp Arg Val Thr Lys Phe - 85 - 90 - 95

The shart fact of the character of the control of a later and later galo there are a later of the characters and the characters are also as a later of the characters are also as a late

<210> 10

<211> 115

<212> PRT

<213> Canis familiaris

<400> 10

Phe Ala Val Giu Asn Pro Met Asn Arg Leu Val Ala Glu Thr Leu Thr

1 5 10 15

Leu Leu Ser Thr His Arg Thr Trp Leu Ile Gly Asp Gly Asn Leu Met 20 25 30

Ile Pro Thr Pro Glu Asn Lys Asn His Gln Leu Cys Ile Lys Glu Val
35 40 45

Phe Gln Gly Ile Asp Thr Leu Lys Asn Gln Thr Ala His Gly Glu Ala 50 -50

Val Asp Lys Leu Phe Gln Asn Leu Ser Leu Ile Lys Glu His Ile Glu 65 70 75 80

Arg Glm Lys Lys Arg Cys Ala Gly Glu Arg Trp Arg Val Thr Lys Phe
85 90 95

Leu Asp Tyr Leu Gln Val Phe Leu Gly Val Ile Asn Thr Glu Trp Thr
100 105 110

Pro Glu Ser 115

101 11

 $-0.111 \times 100M$ 

<213> Canis familiaris

 $<\!4000\times~11$ 

actifunggr giccactedd (giftathac accaaqaaat acttqcaqqt agictaggaa  $60\,$  clifutcact checatettt chectgeaca colfffill tyggeqcicta tytgffettt  $100\,$ 

<210S	12		
-211	35		
<211.	DNA		
-1.13 -	Artificial Sequence		
220 -			
k2231+	Description of Artificial Sequence: Primer	Synthetic	
:400	1.3		
ggge:	cguga aaagatttgc tgtagaaaat cccatg		36
<210:	1.		
:211:			
-: 2120+			
	Artificial Sequence		
22 2.15	crriciar boqueoc		
-:220:-			
-:223:-	Description of Artificial Sequence: Primer	Synthetic	
-:400c	1.3		
adage	ggeeg eteaacttte eggtgteeae te		32
:210:-	1.4		
-:211:	2)		
·:212:-	DHA		
< 31 %:-	Artificial Sequence		
<220:			
	Description of Artificial Sequence:	Synthetic	
action	aarac (daacah) to		* , *
<210~	15		
· 1:115			

1.

<400 - 15 totoranaat officactac 20 <210 - 16 :211 - 20 HID - DNA 3013 Artificial Sequence 1120 1223 Description of Artificial Sequence: Synthetic Primer -:400:- 16 scaauggagg ctataaattc 20 210: 17 -.211: 20 :212: DNA <213: Artificial Sequence</pre> -:220:-+3233 Description of Artificial Sequence: Synthetic Frimer -:400:- 17 thatagtdaa gggdatatdd 20 4210: 18 <211: 1658 <212: DNA 223 Canic tamiliaris 531 Intron 11.111 (171) .. (373) k2200 Salls intron +1111 + (417) ... (1175)

```
+4005 18
admicaaacac tgaacattto agagotatga gaatgottot gaatttgagt ttgotagoto 60
ttiggggetge ctatgtttet geetttgetg tagaaaatee eatgaataga etggtggeag 12)
agreentigad actigetisted actoatogiaa ditiggotigat aggegatiggg glaatititist 180
tittigation tanaginitit aaaatgnatg ggtaatiggt ggiggigget agittitaaa 24)
gatroattat caataatgaa gtaatgagtg ttaataatat ataatgggta accatgttac 300
tragaagaat tatattaaaa gitatgaaco tiacaataca tiaaaaaatga aigitgiite 36)
cittottttt pagaacciga igattociac tocigaaaat aaaaatgiaa gitaaattai 420
galttigataa aatgattaca tgaatcagtt toatattita agotataaag tatcagttaa 430
habinggrapig atticabilit abotatitif thintaliging thoughty actionation 540-
thangaatan haggaatggo gobaggaatg gobolacaat abbaagbaga abboatbaag 6.0^\circ
manginggato aggreentitt tigatgitigt magtiotoca totoanagag corogigton 66%
ygeattettt eesaaaqaat teesatattyy geragagata eeteetayge teesatteaer %1.]
totgtogotg gotttootoa ootoaaogtt titotgaaag taotagoaac tiggggttat 73]
attittiagaa itaitggicag tagacatgaa aatatacagt gaagteetat attaatagte 84)
adticeadat attitaaatga titittaadid taatggaatd atatadatot ggaqtatgid 900-
atggtcatat taaaatgtta aaaatgtgat atcattagtc taaatagaat aaaattacca 960-
gotagaacta tacqaggaaa ttotqaggtq aggtaaatca qtaaqqcaqt tqtattatac 1020
etogtaagea titatiittie asiaaleati teatitatat ealligiaas aeticicagi 10^{240}
aattatataa acatcattta ettatggtaa tiatagetta giataaggig giitteecace 114\%
tggaaaagad acaagtaaaa acctottggg agaagggaac ttgtgtaaac cocacaaaac 1100
aaagtotaac toottggaco aaattottat goottgtott gatgaattat attoottaa(136)
atottootoa titagoacoa acigigoatt aaagaagitti ticagggiat agacacatig 1820-
aagaaccaaa ctgcccacgg ggaggctgtg gataaactat tecaaaactt gtctttaata 1340
aaagaacaca tagagogoca aaaagtaagt taaagacatt tggcaaaaac ttaagtatat 1440^\circ
togoctgact objections territoric territoria aattgacage tecchacaat 1800
atotoototg thottitaac agaaaaggig tgoaggagaa agatggagag tgacaaagti 1860
octagaetae etgeaagtat ttettggtgt aataaacace gagtggacae eggaaagttg 1620
agaacaaacc ggcttattgt agtggaagat tttggaga
                                                                   1658
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<210> 19 <211> 1658 <712> DNA -...- stanin familiarin

tittacotoac otoagaatit potogtatag tintagotgg taatittati otatitagac 720 taatgatate acattittaa eattitaata tgaccatgae atacteeaga tgtatatgat 78) tocattagag tiaaaaatca titaaatatg tiggaagtgac tattaatata ggactteact 84). gtatatttttt atgtotactg accataatto taaaaaatata accoraagtt gitagtaitt 900 toagaaaaac gttgaggtga ggaaagccaa cgacagaggt gaatggagcc taggaagtat 960 ctotganeca atatggaatt cttttggaaa gaatjeetga caegaggete tttgagatgg 1010 agaantgada adatdaaaaaa agggootgat odadttgott aatggattot adttaatatt 1040 gtagagedat teetaacaee atteetaata tteataagea eataatttae ateegeacae 114) ataaaaacaa aatagataaa attaaatcat cocaatgtta actgatactt tatagettaa 1200 aatatgaaac tgattcatgt aatcatttta tcaaatcata atttaactta cattttatt 1240 ttcaggagta ggaatcatca ggttctgaaa aagaaaggaa acaacattca titttaatgt 1330 attytaagyt toataaottt taatataatt ottotyayta acatyyttao ooatttatat 1300 attattaada eteattaett sattattgat aatggatett taaaaaaetag esaceaceae 144) daabtaddca tgcattttaa agactgtagg aatcaaaaag aaaattaccc catcgcctat 1500 cagodaagtt ogatgagtgg agagdagtgt daaggtotot godacdagtd tattdatggg 1560 attitictada gcaaaggdag aaacataggd agdddaaaa gctagdaaad icaaatticag 1620 aageattgto atagototga aatgttoagi glillgeel 1653

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<311> 15
<312> PRT
<313> Artificial Sequence
<320>
<223> Description of Artificial
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<221> Description of Artificial Sequence: N-terminal
 peptide

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<210> 21
+011+071
+010+01A
+01++0anis damiliario
```

## -40 /8 E1

```
aggeaaacac tgaacattte agagetatga gaatgettet gaatttqagt trqctagete 60 ttggggetge cratgittet geettigetg tagaaaatce catgaataga etggtggcag 120 agacettgae actgeteec acteategaa ettggetgat aggegatggg giaarttiet 190 tilgarien tagageteet aaaatgearg gaatgae aggegatggg giaarttiet 190 gateeattat caafaatgaa ghaatgagg tilgaraatt aggegatge aggitgeet agtittiaaa 240 gateeattat caafaatgaa ghaatgaggi tilgaraata atsastgeets 200 mm.
```

